



Title
ELECTRONIC DEVICE FOR LED LIGHTING SYSTEMS

Inventor/s - Contact

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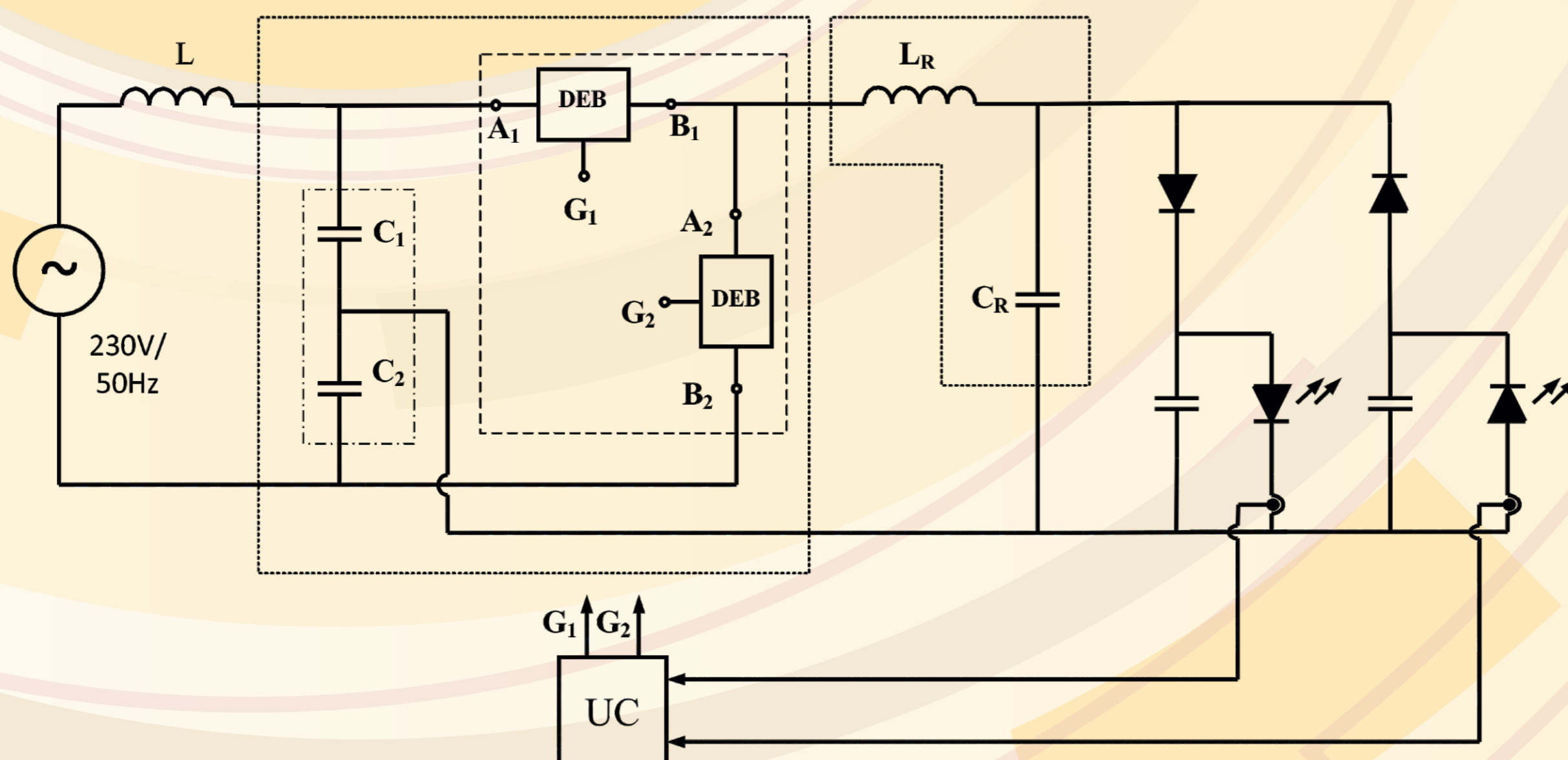
Short presentation

The invention relates to an electronic device for controlling light emitting diodes - LED used in lighting systems. According to the invention, the device comprising a single electric energy conversion stage, without rectifier circuit on the input side, consists of an input filter, an alternating current converter, which consists of a capacitive divider and a half-bridge electronic circuit comprising two bidirectional electronic devices, enabling the direct connection to an alternating voltage source and the generation, at the output, of high frequency alternating voltage signals, which supply a resonance circuit LC, a LED load and a control circuit generating control signals for the converter.

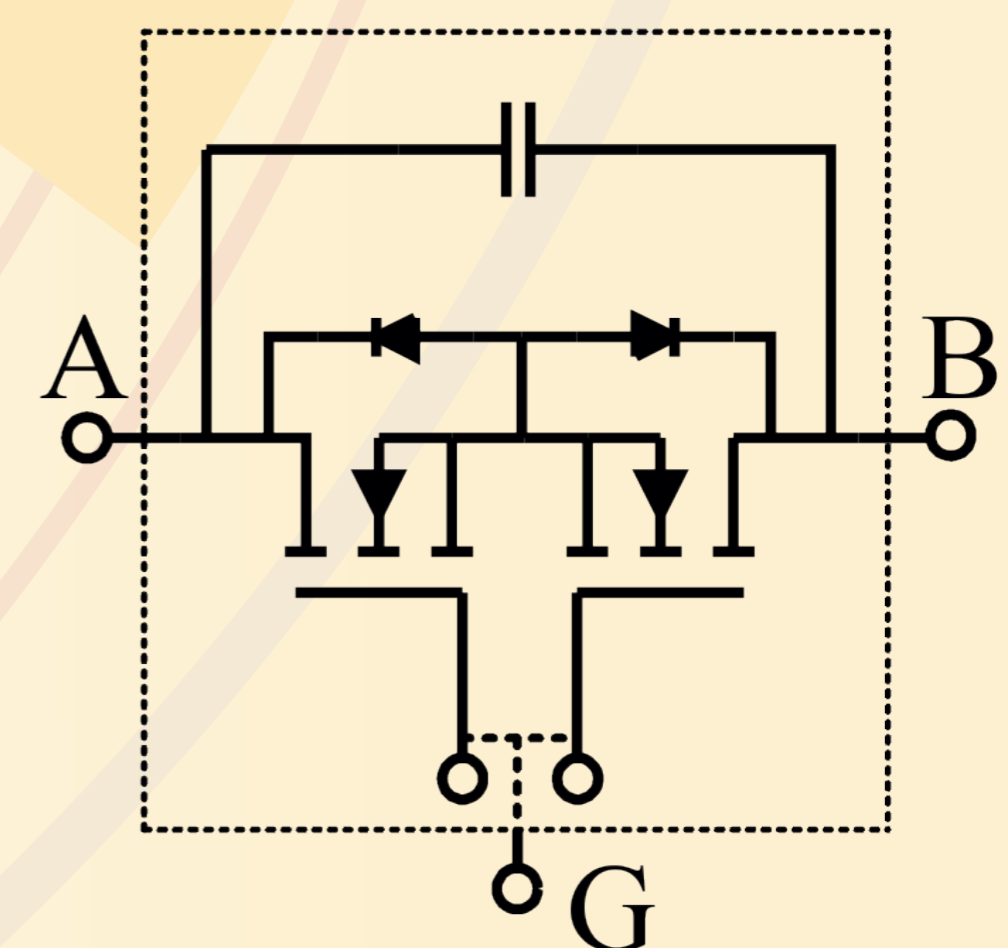
Applicability

The patent can be used in most LED lighting devices that are based on constant current control and high power factor.

Images



Electronic schematic of the converter



DEB